

### Overview

The CCTV Balun allows a single CCTV video signal to be transmitted via cost-effective unshielded twisted pair (UTP) cable.

Used in pairs, the CCTV Balun eliminates costly and bulky coaxial cable, allowing CCTV security and surveillance equipment to be connected using standard structured cabling techniques for neater and more streamlined cabling.

The CCTV Balun is available in two models; CCTV Screw Terminal Balun (500009) and CCTV Modular Balun (500000, 500031). Both models may be used interchangeably.

### Benefits

Cost savings - eliminate costly coaxial cable  
 Quicker moves, adds and changes  
 Neater wiring



### Features

- Up to 2,200 feet (670m) via Cat 5E/6 UTP\* BNC (500000) or RCA (500031) option
- Cable strain relief (500009)
- Compact design
- Low return loss
- \* Less distance may result with DVR/IP encoders.*
- Typical: 1,000 to 1,500 ft via Cat5E/6*

Specifications	
<b>Environment</b>	Close-Circuit TV (CCTV) equipment for security and surveillance.
<b>Devices</b>	CCTV cameras, monitors, switchers, sequencers, multiplexers, digital video recorders (DVR), IP camera servers and other CCTV equipment.
<b>Transmission</b>	Transparent to the user.
<b>Bandwidth</b>	Video: DC to 8 MHz.
<b>Maximum Input</b>	1.1Vp-p
<b>Insertion Loss</b>	Less than 2 dB per pair over the frequency range from DC to 8 MHz
<b>Return Loss</b>	Greater than 15 dB over the frequency range from DC to 8 MHz
<b>Common Mode Rejection</b>	Greater than 40 dB @ 8 MHz
<b>Max. Distance Colour</b>	Cat 3 –1200 ft; Cat 5 or higher – 2200 ft.* <i>* Less distance may result with DVR equipment. Typical: 1,000 to 1,500 ft via Cat5</i>
<b>Max. Distance Black &amp; White</b>	Cat 3 –1500 ft; Cat 5/6 – 2500 ft
<b>Cable – UTP</b>	24 gauge or lower solid copper twisted pair wire impedance: 100 ohms at 1 MHz Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz
<b>Cable – BNC</b>	Impedance: 75 ohms at 1 MHz (RG59/U).
<b>Connectors</b> <i>Reverse polarity sensitive</i>	500000, 500031: RJ45 Pins R7 T8 500000R: RJ45 Pins R8 T7 (pin compatible with 500022, 500024, 500130, 500131, 500133) 500009: Two (2) screw terminals
<b>Impedance</b>	Input: 75 ohms (BNC) Output: 100 ohms (RJ45)
<b>Temperature</b>	Operating: 0° to 55° C. Storage: -20° to 85° C. Humidity: up to 95%
<b>Enclosure</b>	ABS fire retardant plastic
<b>Dimensions</b>	500000, 500031: 1.75" x .75" x 1.00" (4.44cm x 1.9cm x 2.54cm) 500009: 2.30" x 0.62" x 0.62" (5.8cm x 1.57cm x 1.57cm)
<b>Weight</b>	1.5 oz (42.5gm)
<b>Regulatory</b>	FCC Class A, CE, RoHS
<b>Warranty</b>	Lifetime
<b>Order Information</b>	500000 CCTV Modular BNC Balun, R7T8 500000R CCTV Modular BNC Balun, R8T7 500009 CCTV Screw Terminal Balun 500009-2PK CCTV Screw Terminal Balun, Retail 2-Pack 500031 CCTV Modular RCA Balun. R7T8

# CCTV Balun 500000, 500000R, 500009, 500009-2PK, 500031

## Typical Applications

